BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE ELECTRICAL DIVISION

Name of Work:-Detailed Estimate For Providing Street Lights and Electrical Poles in Ward No 13 in shettyhalli Sub Division.

Budget Head P 1771.....

Division No..... Estimate No. 900000.00

Sl no	SR Page No	Description of Work	Unit	Qty.	Rate Rs. Ps.	Amount Rs. Ps.
1	26/4.35.3	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	Nos	39	18720.00	730080.00
2	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	10	4044.00	40440.00
3		Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	Nos	10	2178.00	21780.00
4	17.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	0	176.00	0.00

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5	[illegible]	Supplying of 1.1 KV, LT UG cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanized, steel strip / wire/ 2CX1SSq mm wire armoured/ conforming to IS-3975-1988/ No. of Strip /wire laid in GITP) & extruded PVC outer sheathed, armoured cable with specified IS-1554-Part-1-1988 & confirming to GTP of GROUP-4.2.3 core 25 sqmm	Mtrs	90	1995.00	84000.00
6	[illegible] 1.12	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40Dx40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall along suitable clamps, bolts, and nuts and wiring using suitable capacity wires(along 32mm dia GI pipe	Nos	40	895.00	35720.00
7	[illegible] 7	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench(duct 25 sqmm to 75 sqmm	Per Mtr	60	16.20	972.00
8	[illegible] 7	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	30	20.59	617.70
9	3305. 2.2	Supply and erection of .....Mtr RCC Pole including earth work etc., complete as per the standard technical specification of BESCOM 8Mtr 145Kg WL	Nos	5	8029.00	40145.00
10	3307. 6	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255: 1995 & confirming to GTP of GROUP-4.2 II 16 + 1 X 25 SQ MM	Mtrs	2200	82.00	184000.00
11	3305. 8.5	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification of BESCOM RCC Clamp	Nos	6	84.00	504.00
12	[illegible]	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs	6	2051.00	12315.00
		Total Rs				8888873.70
		Miscellenious Rs				1126.30
		Total Amount				9000000.00

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary
3. The Work comes in the BMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD Elec SR of 2014-15

JE/Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
DASARAHALLI DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

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